IN THE CLAIMS

- 1. (currently amended) Glass-ceramics having an average linear thermal expansion coefficient within a range of $0.0\pm0.2\times10^{-7}$ /°C within a temperature range from 0°C to 50°C, having difference between the maximum value and the minimum value of Δ L/L of 10×10^{-7} or below, and comprising SiO₂, Al₂O₃ and P₂O₅ with the total amount thereof in mass % being within a range from 86.0% to 89.0% and further comprising CaO in an amount of 0.5 mass % or more, wherein the ratio of P₂O₅ to Al₂O₃ in mass % is within a range from 0.270 to 0.33.
- 2. (currently amended) Glass-ceramics as defined in claim 1 wherein the ratio of P_2O_5 to SiO_2 in mass $\frac{9}{2}$ and the ratio of P_2O_5 to Al_2O_3 are

P₂O₅/SiO₂

0.1230 - 0.1450 and

P₂O₅/Al₂O₃

0.270 - 0.330.

- 3. (currently amended)Glass-ceramics having an average linear thermal expansion coefficient within a range of $0.0\pm0.1\times10^{-7}$ /°C within a temperature range from 0°C to 50°C, having difference between the maximum value and the minimum value of Δ L/L of 8×10^{-7} or below, and comprising SiO₂, Al₂O₃ and P₂O₅ with the total amount thereof in mass % being within a range from 86.0% to 89.0%% and further comprising CaO in an amount of 0.5 mass % or more, wherein the ratio of P₂O₅ to Al₂O₃ in mass % is within a range from 0.270 to 0.33.
- 4. (currently amended) Glass-ceramics as defined in claim 3 wherein the ratio of P_2O_5 to SiO_2 in mass % and the ratio of P_2O_5 to Al_2O_3 are

P₂O₅/SiO₂

0.1230 - 0.1450 and

P₂O₅/Al₂O₃

0.270 - 0.330.

5. (original) Glass-ceramics as defined in claim 1 wherein surface roughness (Ra)

(arithmetic mean roughness) is 3 Å or below.

- 6. (original) Glass-ceramics as defined in claim 1 wherein an average crystal grain diameter of precipitating crystal phase or phases is within a range from 50nm to 90nm.
- 7. (original) Glass-ceramics as defined in claim 1 which comprise β -quartz (β -SiO₂) and/or β -quartz solid solution (β -SiO₂ solid solution) as a predominant crystal phase.
- 8. (original) Glass-ceramics as defined in claim 1 which are free of PbO, Na_2O , K_2O and B_2O_3 .
- 9. (original) Glass-ceramics as defined in claim 1 obtained by heat treating, for crystallization, a base glass which comprises, in mass %,

$$SiO_2$$
 53 - 57%
 P_2O_5 7.0 - 8.5% and
 Al_2O_3 23 - 26%

and is substantially free of PbO₂, Na₂O₃, K₂O and B₂O₃, said glass-ceramics comprising β -quartz (β -SiO₂) and/or β -quartz solid solution (β -SiO₂ solid solution) as a predominant crystal phase.

- 10. (original) Glass-ceramics as defined in claim 9 comprising, in mass %, Li_2O within a range of 3.5 4.5%.
- 11. (original) Glass-ceramics as defined in claim 10 comprising, in mass %,

MgO	0.5 - 1.5% and/or
ZnO	0.1 - 1.5% and/or
CaO	0.5 - 1.5% and/or
BaO	0.5 - 1.5% and/or
TiO ₂	1.5 - 3.0% and/or
ZrO_2	1.0 - 3.0% and/or

 As_2O_3

0.5 - 1.0%.

- 12. (original)Glass-ceramics as defined in claim 1 wherein the maximum temperature of the heat treatment for crystallization is within a range from 750℃ to 800℃.
- 13. (currently amended) A mask for lithography using comprising glass-ceramics as defined in claim 1.
- 14. (currently amended) An optical system reflecting mirror for lithography using comprising glass-ceramics as defined in claim 1.
- 15. (currently amended)A wafer stage or a reticle stage for lithography using comprising glass-ceramics as defined in claim 1.
- 16. (currently amended) A component part of a precision instrument using comprising glass-ceramics as defined in claim 1.
- 17. (original) Glass-coramics as defined in claim 3 wherein surface roughness (Ra) (arithmetic mean roughness) is 3 Å or below.
- 18. (original) Glass-ceramics as defined in claim 3 wherein an average crystal grain diameter of precipitating crystal phase or phases is within a range from 50mm to 90mm.
- 19. (original)Glass-ceramics as defined in claim 3 which comprise β -quartz (β -SiO₂) and/or β -quartz solid solution (β -SiO₂ solid solution) as a predominant crystal phase.
- 20. (original)Glass-ceramics as defined in claim 3 which are free of PbO, Na₂O, K₂O and B₂O₃.
- 21. (original) Glass-ceramics as defined in claim 3 obtained by heat treating, for crystallization, a base glass which comprises, in mass %,

 Al_2O_3

SiO ₂	53 – 57%
P ₂ O ₅	7.0 - 8.5% and

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and is substantially free of PbO, Na₂O, K₂O and B₂O₃ said glass-ceramics comprising β -quartz (β -SiO₂) and/or β -quartz solid solution (β -SiO₂ solid solution) as a predominant crystal phase.

23 - 26%

- 22. (original)Glass-ceramics as defined in claim 21 comprising, in mass %, Li_2O within a range of 3.5 4.5%.
- 23. (currently amended)Glass-ceramics as defined in claim 22 comprising, in mass %,

MgO	0.5 - 1.5% and/or
ZnO	0.1 - 1.5% and/or
CaO	0.5 - [1/] 1.5% and/or
BaO	0.5 - 1.5% and/or
TiO ₂	1.5 - 3.0% and/or
ZrO ₂	1.0 - 3.0% and/or
As_2O_3	0.5 - 1.0%.

- 24. (original) Glass-ceramics as defined in claim 3 wherein the maximum temperature of the heat treatment for crystallization is within a range from 750°C to 800°C.
- 25. (currently amended) A mask for lithography using comprising glass-ceramics as defined in claim 3.
- 26. (currently amended)An optical system reflecting mirror for lithography using comprising glass-ceramics as defined in claim 3.
- 27. (currently amended) A wafer stage or a reticle stage for lithography using comprising glass-ceramics as defined in claim 3.

- 28. (currently amended) A component part of a precision instrument using comprising glass-ceramics as defined in claim 3.
- 29. (original) Glass-ceramics as defined in claim 2 obtained by heat treating, for crystallization, a base glass which comprises, in mass %,

SiO_2		53 - 57%
P_2O_5	,	7.0 - 8.5% and
Al_2O_3		23 – 26%

and is substantially free of PbO, Na₂O, K₂O and B₂O₃, said glass-ceramics comprising β - quartz (β -SiO₂) and/or β -quartz solid solution (β -SiO₂ solid solution) as a predominant crystal phase.

- 30. (original) Glass-ceramics as defined in claim 29 comprising, in mass %, Li_2O within a range of 3.5 4.5%.
- 31. (original) Glass-ceramics as defined in claim 30 comprising, in mass %,

MgO	0.5 - 1.5% and/or
ZnO	0.1 - 1.5% and/or
CaO	0.5 - 1.5% and/or
BaO	0.5 - 1.5% and/or
TiO ₂	1.5 - 3.0% and/or
ZrO_2	1.0 - 3.0% and/or
As ₂ O ₃	0.5 - 1.0%.

32. (original)Glass-ceramics as defined in claim 4 obtained by heat treating, for crystallization, a base glass which comprises, in mass %,

SiO ₂	53 – 57%
P ₂ O ₅	7.0 - 8.5% and
Al ₂ O ₃	23 – 26%

and is substantially free of PbO, Na₂O, K₂O and B₂O₃ said glass-ceramics comprising β -